

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/573,885A
Source: IEP/0
Date Processed by STIC: 7/20/07

ENTERED



IFWO

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/573,885A

DATE: 04/20/2007
 TIME: 16:01:24

Input Set : E:\seqSU0411PCT.txt
 Output Set: N:\CRF4\04202007\J573885A.raw

3 <110> APPLICANT: SUNTORY LIMITED
 5 <120> TITLE OF INVENTION: A gene encoding an enzyme catalyzing biosynthesis of lignan,
 6 and the use thereof
 8 <130> FILE REFERENCE: SU0411/PCT
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/573,885A
 C--> 10 <141> CURRENT FILING DATE: 2006-03-29
 10 <150> PRIOR APPLICATION NUMBER: JP 2003-341313
 11 <151> PRIOR FILING DATE: 2003-09-30
 13 <150> PRIOR APPLICATION NUMBER: JP 2003-432383
 14 <151> PRIOR FILING DATE: 2003-12-26
 16 <160> NUMBER OF SEQ ID NOS: 79
 18 <170> SOFTWARE: PatentIn Ver. 2.1
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 506
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Sesamum indicum
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: SiP189
 28 <400> SEQUENCE: 1
 29 Met Glu Ala Glu Met Leu Tyr Ser Ala Leu Ala Leu Thr Phe Ala Ile
 30 1 5 10 15
 32 Phe Met Val Tyr Arg Ile Leu Ser Asn Ser Gln Asp Lys Arg Ser Leu
 33 20 25 30
 35 Thr Lys Leu Pro Pro Ser Pro Pro Gly Trp Leu Pro Val Ile Gly His
 36 35 40 45
 38 Ala His Leu Met Lys Asn Leu Leu His Arg Thr Leu Tyr Asp Phe Ser
 39 50 55 60
 41 Gln Lys Leu Gly Pro Ile Phe Ser Ile Arg Phe Gly Ser Arg Leu Val
 42 65 70 75 80
 44 Val Val Val Ser Ser Ser Leu Val Glu Glu Cys Phe Thr Lys Tyr
 45 85 90 95
 47 Asp Ile Val Leu Ala Asn Arg Pro Gln Ala Ser Val Asp Arg Arg Ser
 48 100 105 110
 50 Leu Gly Phe Ser Thr Thr Ser Val Ile Gly Ala Pro Tyr Gly Asp His
 51 115 120 125
 53 Trp Arg Asn Leu Arg Lys Leu Cys Asp Leu Glu Val Phe Ala Pro Thr
 54 130 135 140
 56 Arg Leu Ala Ser Phe Leu Ser Ile Arg Leu Asp Glu Arg Asp Arg Met
 57 145 150 155 160
 59 Ile Ser Ala Leu Tyr Lys Ile Ser Ser Ala Gly Phe Ala Lys Val Asn
 60 165 170 175
 62 Leu Glu Ala Lys Ile Val Glu Leu Thr Phe Asn Asn Ile Met Arg Met
 63 180 185 190

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65 Val Ala Ala Lys Arg Tyr Tyr Gly Glu Glu Ala Glu Asp Asp Glu Glu
66 195 200 205
68 Ala Lys Arg Phe Arg Asp Leu Thr Lys Glu Ala Leu Glu Leu Thr Ser
69 210 215 220
71 Ala Ser Asn Pro Gly Glu Ile Phe Pro Ile Leu Arg Trp Leu Gly Cys
72 225 230 235 240
74 Asn Gly Leu Glu Lys Lys Leu Ala Val His Ser Arg Lys Thr Asp Glu
75 245 250 255
77 Phe Met Gln Gly Leu Leu Asp Glu His Arg Arg Gly Glu Arg Gln Asn
78 260 265 270
80 Thr Met Val Asp His Leu Leu Ser Leu Gln Glu Ser Gln Pro Glu Tyr
81 275 280 285
83 Tyr Thr Asp Glu Ile Ile Thr Gly Leu Ile Val Ala Leu Ile Ile Ala
84 290 295 300
86 Gly Thr Asp Ala Ser Val Val Thr Thr Glu Trp Ala Met Ser Leu Leu
87 305 310 315 320
89 Leu Asn His Pro Lys Val Leu Glu Lys Ala Arg Lys Glu Leu Asp Thr
90 325 330 335
92 Leu Val Gly His Glu Arg Met Val Asp Glu His Asp Leu Pro Lys Leu
93 340 345 350
95 Arg Tyr Leu His Cys Ile Val Leu Glu Thr Leu Arg Leu Phe Pro Ser
96 355 360 365
98 Val Pro Thr Leu Val Pro His Glu Pro Ser Glu Asp Cys Lys Ile Gly
99 370 375 380
101 Gly Tyr Asn Val Pro Lys Gly Thr Met Val Leu Val Asn Ala Trp Ala
102 385 390 395 400
104 Ile His Arg Asp Pro Lys Val Trp Asp Asp Pro Leu Ser Phe Lys Pro
105 405 410 415
107 Asp Arg Phe Glu Ile Met Glu Val Glu Thr His Lys Leu Leu Pro Phe
108 420 425 430
110 Gly Met Gly Arg Arg Ala Cys Pro Gly Ala Gly Leu Ala Gln Lys Phe
111 435 440 445
113 Val Gly Leu Ala Leu Gly Ser Leu Ile Gln Cys Phe Asp Trp Glu Arg
114 450 455 460
116 Thr Ser Pro Glu Lys Ile Asp Leu Asn Glu Gly Ser Gly Ile Thr Leu
117 465 470 475 480
119 Pro Lys Ala Lys Thr Leu Glu Ala Met Cys Lys Pro Arg His Val Met
120 485 490 495
122 Glu Lys Val Leu Arg Gln Val Ser Asn Val
123 500 505
126 <210> SEQ ID NO: 2
127 <211> LENGTH: 1518
128 <212> TYPE: DNA
129 <213> ORGANISM: Sesamum indicum
131 <220> FEATURE:
132 <223> OTHER INFORMATION: SiP189
134 <400> SEQUENCE: 2
135 atgaaagctg aatgtata tttagcttc gcttcaccc tcggcatatt catggttac 60
136 agaattcttt ctaattcgca ggacaagcgc agcctgacta agctgcctcc gagccccc 120

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137 ggttggctgc cggtgatcg ccacgctcat ctcatgaaaa atctcctcca tagaacacta 180
 138 tacgacttct cccagaaaact gggacccata ttttccatcc gggtcgggtc gcgcctcgtg 240
 139 gtgggtgtgt ctccttcctc cctgggtggag gaatgttca ccaagtatga cattgtctt 300
 140 gcaaattcgcc ctcaggcttc tggacccgg cgctcacttg gggtcagcac caccagcgta 360
 141 atcggggccc cgtacgggaa ccattggcgc aacctgcgaa agttgtgcga tcttgaagta 420
 142 ttgcggccga cccgtctcgc ctcgtttta tccatcaggc ttgacgagag ggacccatg 480
 143 atttccgcgt tataaaaaat ctcgtccgccc gggttgcga aggtgaattt ggaagcgaag 540
 144 attgtggagc tgacgtttaa taacataatg aggatggtg cggcgaagag atactatggg 600
 145 gaggaggcgg aggacgacga ggaggcgaag aggttcaggc acctgacgaa ggaggcttg 660
 146 gagttgcga ggcgttccaa tcctggtag atatttccaa tattgcggtg gcttgggtgc 720
 147 aatgggctgg agaagaagct ggctgttac tcgcggaga cggatgagtt catgcaaggg 780
 148 ctgcggacg aacaccgacg gggcgagcgc cagaacacca tggatgtca tttgcttcg 840
 149 ttgcaggaat ctcaacactga gtactacact gatgaaatca tcactggcct catagttgca 900
 150 ttgataattt cgggaacgga tgcattcggtt gtaactacag aatggcgat gtcccttta 960
 151 ctaaatcatc ccaaagtact tggaaaggct agaaaagaac tggacactct agtaggacac 1020
 152 gaacgcattt ttgatgaaca cgtatctccc aaactacgtt accttcaactg catagtctt 1080
 153 gagaccttaa ggttattccc ttctgttcca actttggtag cacacgaacc atcagaggat 1140
 154 tgtaaaattt ggggatacaa tggcccaag gggacaatgg tattatgaa tgcttggca 1200
 155 atacaccgag accccaagggt gtggacgac cccttggact ttaagccga cagggtttag 1260
 156 ataatggaaat tggagacaca caagttgttgc cgggtcgaa tggcaggag agcgtgtcct 1320
 157 ggagctggac tggcgccagaa gtttgggg ttggcttgg ggtcgctgat tcagtgttc 1380
 158 gactgggaga gaacgagtcc cgagaaaatt gacttgaacg aaggttctgg gataaccctt 1440
 159 cctaaagctt agacgttggaa agccatgtgc aaacctagac atgtcatgaa aaaagttctt 1500
 160 cgtcagggtt ccaacgtt 1518
 163 <210> SEQ ID NO: 3
 164 <211> LENGTH: 21
 165 <212> TYPE: DNA
 166 <213> ORGANISM: Artificial Sequence
 168 <220> FEATURE:
 169 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
 170 Synthesized Primer Sequence, Si18SrRNA-FW
 172 <400> SEQUENCE: 3
 173 tatgcttgtc tcaaagatta a 21
 176 <210> SEQ ID NO: 4
 177 <211> LENGTH: 21
 178 <212> TYPE: DNA
 179 <213> ORGANISM: Artificial Sequence
 181 <220> FEATURE:
 182 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
 183 Synthesized Primer Sequence, Si18SrRNA-RV
 185 <400> SEQUENCE: 4
 186 aacatctaag ggcattcacag a 21
 189 <210> SEQ ID NO: 5
 190 <211> LENGTH: 24
 191 <212> TYPE: DNA
 192 <213> ORGANISM: Artificial Sequence
 194 <220> FEATURE:
 195 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
 196 Synthesized Primer Sequence, CYP90A-FW

RAW SEQUENCE LISTING DATE: 04/20/2007
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Input Set : E:\seqSU0411PCT.txt
 Output Set: N:\CRF4\04202007\J573885A.raw

198 <400> SEQUENCE: 5
 199 ttttccgatg aagagattgt tgac 24
 202 <210> SEQ ID NO: 6
 203 <211> LENGTH: 18
 204 <212> TYPE: DNA
 205 <213> ORGANISM: Artificial Sequence
 207 <220> FEATURE:
 208 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
 209 Synthesized Primer Sequence, CYP90A-RV
 211 <400> SEQUENCE: 6
 212 tgccatctcc aagggttg 18
 215 <210> SEQ ID NO: 7
 216 <211> LENGTH: 24
 217 <212> TYPE: DNA
 218 <213> ORGANISM: Artificial Sequence
 220 <220> FEATURE:
 221 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
 222 Synthesized Primer Sequence, CYP72B-FW
 224 <400> SEQUENCE: 7
 225 cttaatgttc aatgataat ggat 24
 228 <210> SEQ ID NO: 8
 229 <211> LENGTH: 18
 230 <212> TYPE: DNA
 231 <213> ORGANISM: Artificial Sequence
 233 <220> FEATURE:
 234 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
 235 Synthesized Primer Sequence, CYP72B-RV
 237 <400> SEQUENCE: 8
 238 gtaaatcggtt cagggttg 18
 241 <210> SEQ ID NO: 9
 242 <211> LENGTH: 24
 243 <212> TYPE: DNA
 244 <213> ORGANISM: Artificial Sequence
 246 <220> FEATURE:
 247 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
 248 Synthesized Primer Sequence, CYP71B-FW
 250 <400> SEQUENCE: 9
 251 ttcaccactg atcatctcaa agga 24
 254 <210> SEQ ID NO: 10
 255 <211> LENGTH: 18
 256 <212> TYPE: DNA
 257 <213> ORGANISM: Artificial Sequence
 259 <220> FEATURE:
 260 <223> OTHER INFORMATION: Description of Artificial Sequence: Artificially
 261 Synthesized Primer Sequence, CYP71B-RV
 263 <400> SEQUENCE: 10
 264 agaaacctgt cagggtta 18
 267 <210> SEQ ID NO: 11
 268 <211> LENGTH: 24

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Output Set: N:\CRF4\04202007\J573885A.raw

DNA
ISM: Artificial Sequence
RE:
INFORMATION: Description of Artificial Sequence: Artificially
sizezied Primer Sequence, CYP84A-FW
NCE: 11
acaatatacaa agca 24
D NO: 12
I: 18
DNA
ISM: Artificial Sequence
RE:
INFORMATION: Description of Artificial Sequence: Artificially
sizezied Primer Sequence, CYP84A-RV
NCE: 12
atggtctaa 18
D NO: 13
I: 24
DNA
ISM: Artificial Sequence
RE:
INFORMATION: Description of Artificial Sequence: Artificially
sizezied Primer Sequence, CYP96A-FW
NCE: 13
agttccctcag ggac 24
D NO: 14
I: 18
DNA
ISM: Artificial Sequence
RE:
INFORMATION: Description of Artificial Sequence: Artificially
sizezied Primer Sequence, CYP96A-RV
NCE: 14
ctggcttg 18
D NO: 15
I: 24
DNA
ISM: Artificial Sequence
RE:
INFORMATION: Description of Artificial Sequence: Artificially
sizezied Primer Sequence, CYP710A-FW
NCE: 15
aagccatccgg cggt 24
D NO: 16
I: 18
DNA
ISM: Artificial Sequence
RE:
INFORMATION: Description of Artificial Sequence: Artificially

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/573,885A

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TIME: 16:01:25

Input Set : E:\seqSU0411PCT.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:77; N Pos. 2199

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/573,885A

DATE: 04/20/2007
TIME: 16:01:25

Input Set : E:\seqSU0411PCT.txt
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L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1814 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:2160